

DIVISION 2 – SITE WORK

SECTION 02270

SLOPE PROTECTION AND EROSION CONTROL

PART 1 GENERAL

1.01 SECTION INCLUDES

- A. Temporary and permanent erosion control systems.
- B. Slope Protection Systems.

1.02 RELATED SECTIONS

- A. Section 02100 - Site Preparation
- B. Section 02200 - Earthwork
- C. Construction Drawings

1.03 ENVIRONMENTAL REQUIREMENTS

The contractor shall protect adjacent properties and water resources from erosion and sediment damage throughout the life of the contract.

1.04 COORDINATION

Coordinate erosion control grassing with required permanent grassing required by erosion control plan.

PART 2 PRODUCTS

2.01 MATERIALS

- A. Quick growing grasses such as wheat, rye or oats.
- B. Hay or straw bales.
- C. Fencing for siltation control as specified on the plans.
- D. Curlex blankets by American Excelsior Company or approved equal.
- E. Bale stakes for each bale shall be a minimum of 4 feet in length and shall be either 2 #4 rebars, 2 steel pickets or 2-2"x2" hardwood stakes driven 1'-6" to 2'-0" into ground.
- F. Temporary mulches such as loose hay, straw, netting, wood cellulose or agricultural silage.
- G. Fence stakes shall be metal stakes a minimum of 8 feet in length.
- H. Hydro-seeding shall consist of mixing and applying seed, commercial fertilizer, water management gel, polyacrylamide tackifier, and mycorrhizal inoculum with paper or wood fiber and water. Seed and commercial fertilizer shall be spread over the area at rates specified in Table 717-1 and Table 718-1 of the 2006 Edition of the Louisiana Standard Specifications for Roads and Bridges.

PART 3 EXECUTION

3.01 PREPARATION

- A. Prepare a site Storm Water Pollution Prevention Plan in accordance with the erosion control plan and submit any variations "for information only" to the Owner.
- B. Deficiencies or changes in the erosion control plan as it is applied to current conditions will be evaluated and implemented as necessary by the Contractor and brought to the attention of the Owner and the Engineer.
- C. Preparation of areas to be hydro-seeded shall be prepared in accordance with Subsection 717.04 of the 2006 Edition of the Louisiana Standard Specifications for Roads and Bridges.

3.02 EROSION CONTROL AND SLOPE PROTECTION IMPLEMENTATION

- A. Place erosion control systems in accordance with the erosion control plan.
- B. The contractor will be required to incorporate all permanent erosion control features into the project at the earliest practical time to minimize the need for temporary controls. Cut slopes shall be permanently seeded and mulched as the excavation proceeds to the extent considered desirable and practical.
- C. The temporary erosion control systems installed by the contractor shall be maintained to control siltation at all times during the life of the contract. The contractor must respond to any maintenance or additional work ordered by the Owner within a 48 hour period.
- D. Any additional material and work required and authorized by the Owner which is beyond the extent of the erosion control plan shall be paid for by the owner.
- E. Slopes that erode easily shall be temporary seeded as the work progresses with a rye grass application.
- F. Upon acceptance of stabilized slopes and permanent erosion protection measures, the Contractor shall remove all devices and dress areas to the satisfaction of the Owner.
- G. A dispersing agent may be used for hydro-seeding provided the contractor furnishes evidence that the additive will not affect germination. Any mixture containing polyacrylamide tackifier shall not be applied during any rainy weather or when soil temperatures are below 41° F or if the wind speed is above 20 miles per hour. Pedestrian traffic or equipment shall not be permitted to enter areas where hydro-seeding has been applied.

END OF SECTION 02270